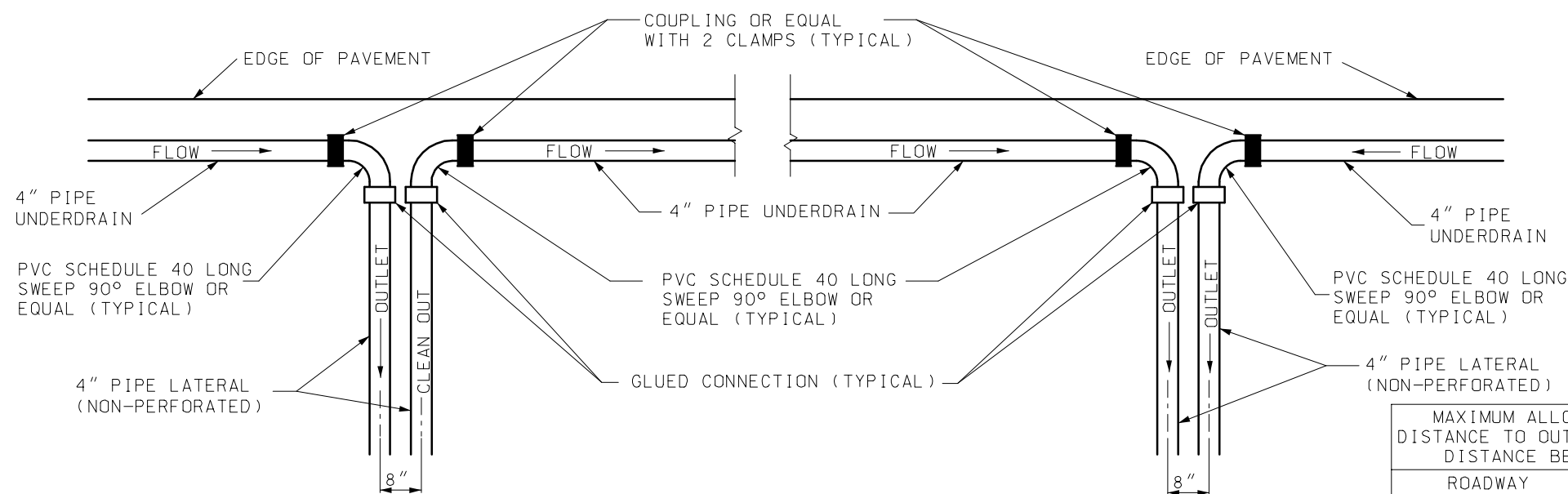


MEDIUM DUTY

HEAVY DUTY



ON GRADIENT

AT SAGS

DETAIL OF PIPE AGGREGATE DRAIN OUTLETS

GENERAL NOTES:

ON SUPERELEVATED CURVES PLACE LONGITUDINAL UNDERDRAIN ON LOW SIDE ONLY.

CONSTRUCT OUTLETS AT LOW POINT OF SAG CURVE.

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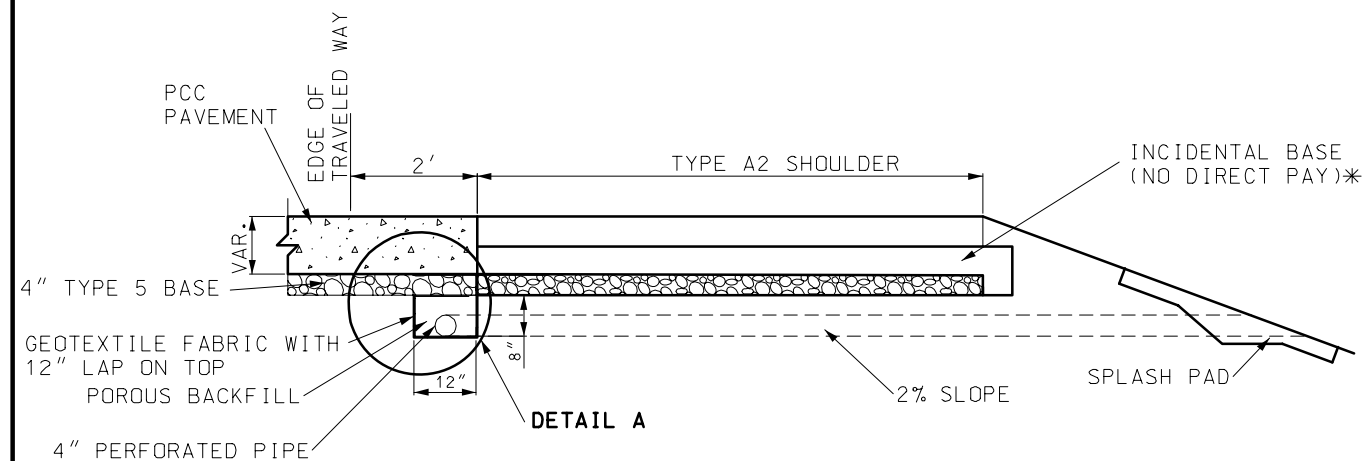
PAVEMENT UNDERDRAINAGE  
PIPE AGGREGATE PAVEMENT  
EDGE DRAINS FOR  
FULL DEPTH SHOULDERS

DATE: \_\_\_\_\_

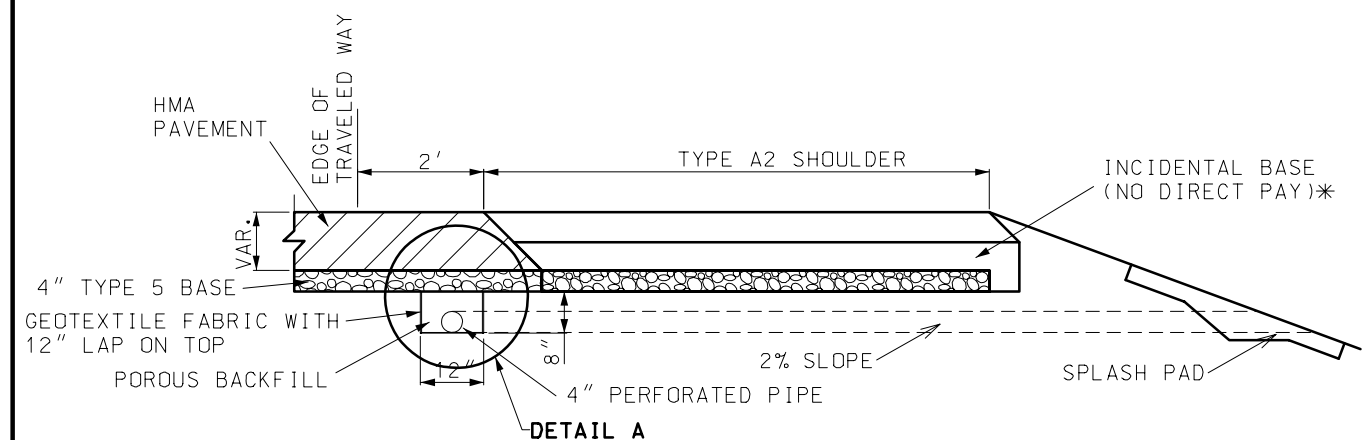
EFFECTIVE: 07-01-2006

605.10G

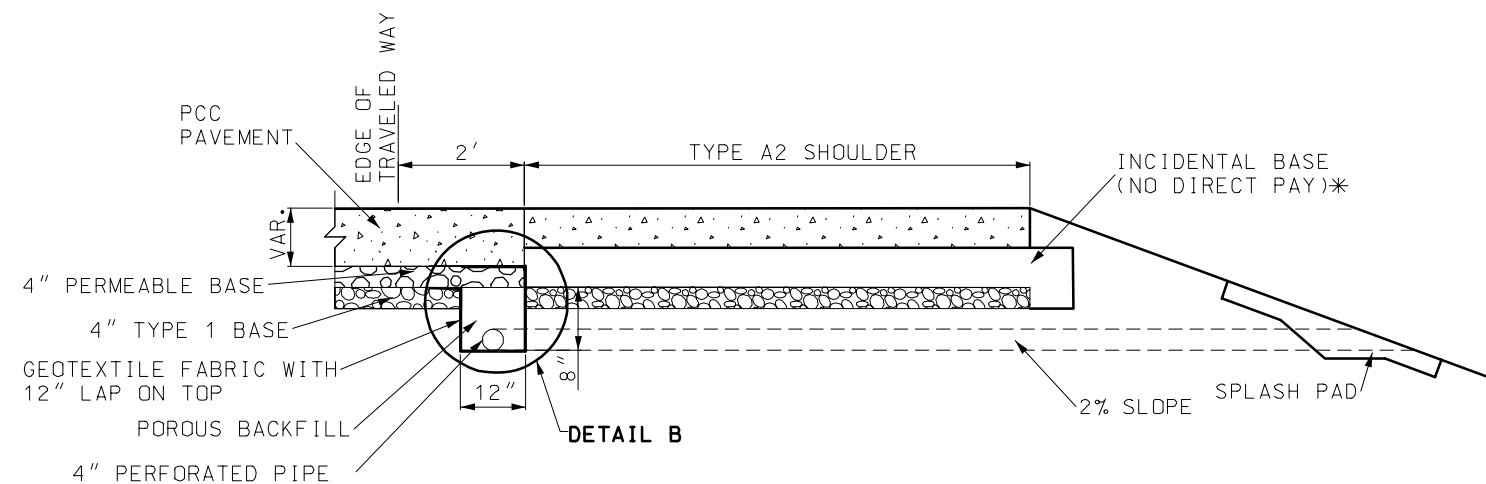
MAXIMUM ALLOWABLE DRAINAGE DISTANCE TO OUTLET OR SEPARATION DISTANCE BETWEEN OUTLETS	
ROADWAY PROFILE GRADIENT (%)	DISTANCE
≤ 1	250 FT.
> 1 AND ≤ 2	375 FT.
> 2	500 FT.



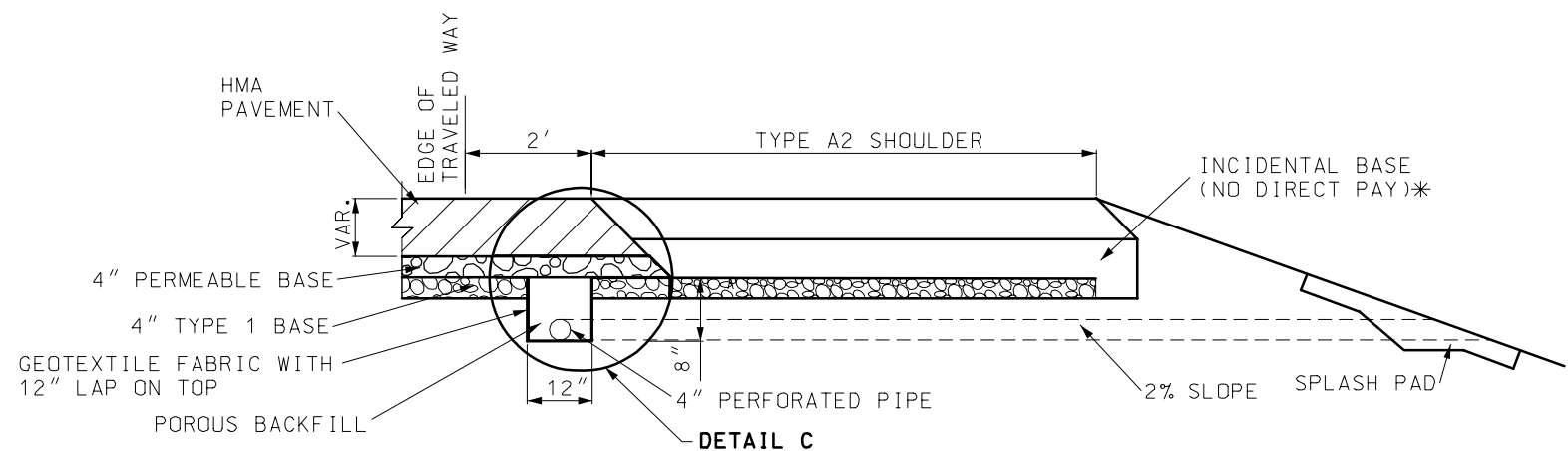
**RIGID PAVEMENT WITH TYPE 5 BASE**






**FLEXIBLE PAVEMENT WITH TYPE 5 BASE**



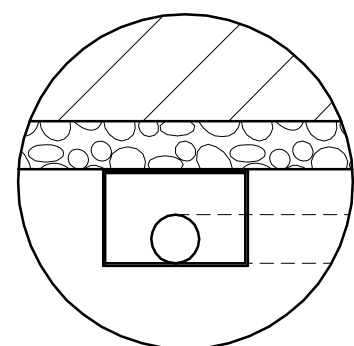
**RIGID PAVEMENT WITH PERMEABLE BASE**



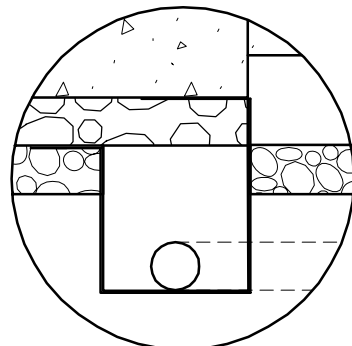
**FLEXIBLE PAVEMENT WITH PERMEABLE BASE**

-  PCC (PORTLAND CEMENT CONCRETE)
-  HMA (HOT MIX ASPHALT)
-  BASE

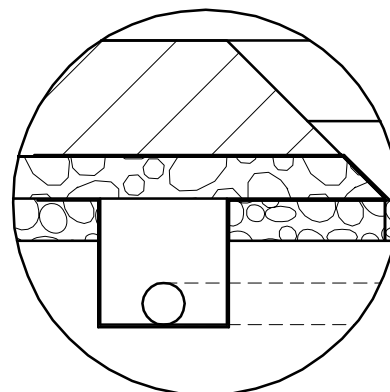
\* BASE MATERIAL (ASPHALT MILLINGS, RECLEED CONCRETE, TYPE 1 BASE, ETC.) APPROVED BY THE ENGINEER.



DETAIL A



DETAIL B

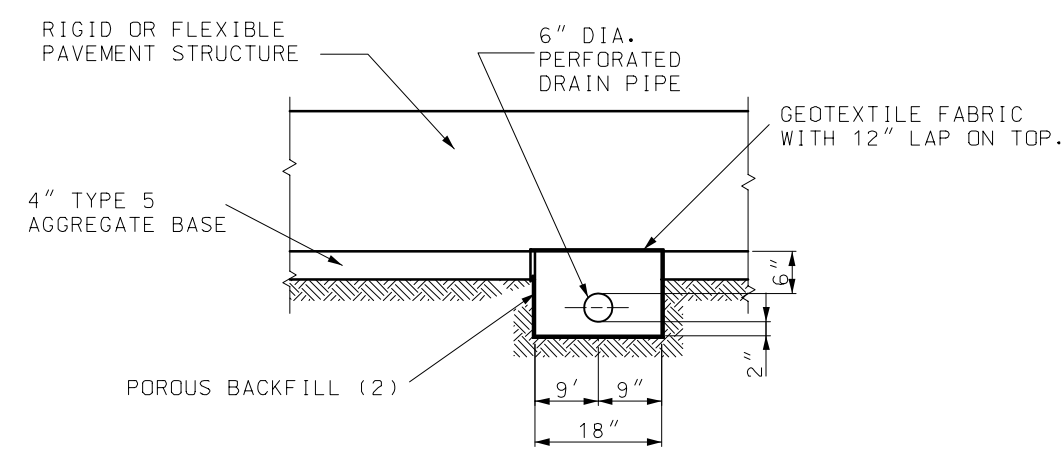


DETAIL C

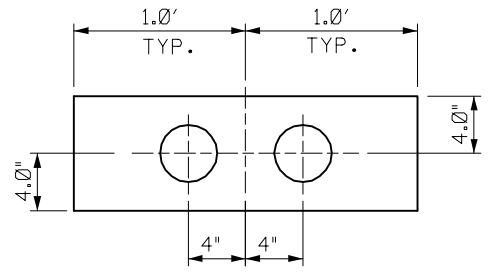
GENERAL NOTES:

SEE DETAIL OF PIPE AGGREGATE DRAIN OUTLETS ON SHEET 1.

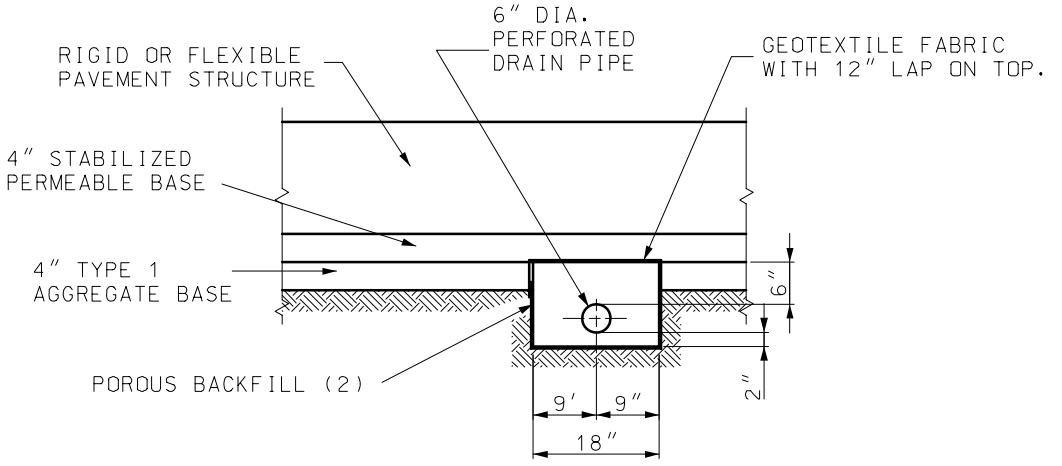
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
<b>PAVEMENT UNDERDRAINAGE</b> PIPE AGGREGATE PAVEMENT EDGE DRAINS FOR TYPE A2 SHOULDERS			
DATE: _____	EFFECTIVE: 07-01-2006	605.10G	2/3



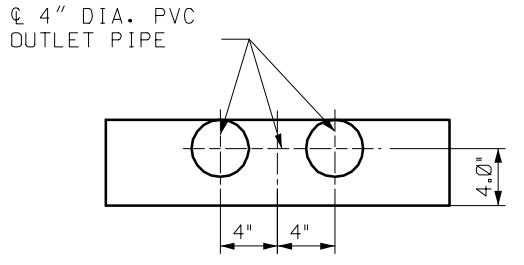
SECTION D-D  
WITHOUT PERMEABLE BASE



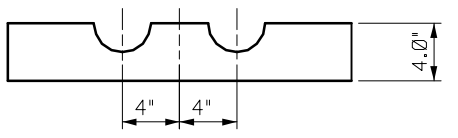
SECTION A-A



SECTION D-D  
WITH PERMEABLE BASE



SECTION B-B



SECTION C-C

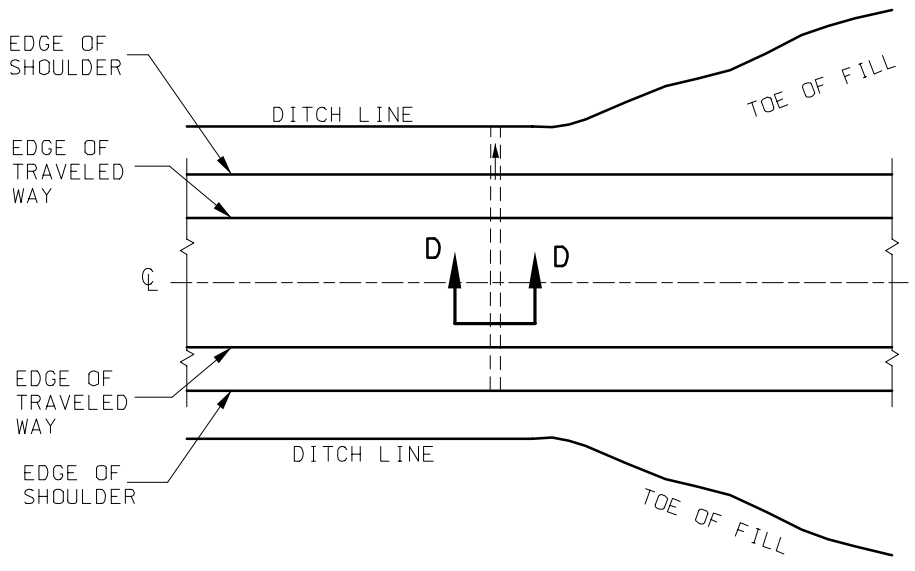
NOTE:

PRECAST CONCRETE SPLASH PADS MAY BE INSTALLED AS APPROVED BY THE ENGINEER.

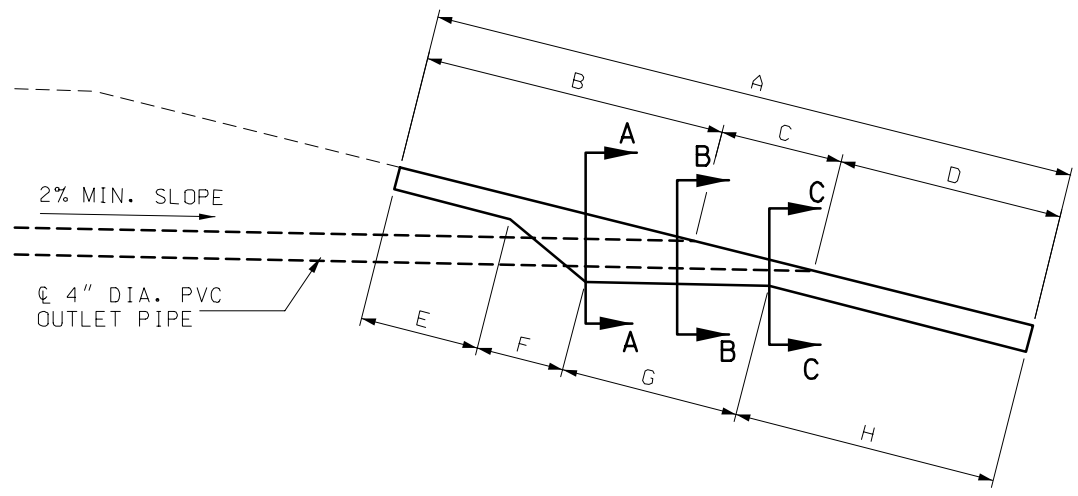
TOP OF SPLASH PAD SHALL MATCH EXISTING CROSS SLOPE. CONSTRUCT BEND IN SPLASH PAD WHERE CROSS SLOPE CHANGES.

DIMENSIONS ARE APPROXIMATE AND CAN BE ADJUSTED AS DIRECTED BY THE ENGINEER.

ITEM	2:1	3:1	4:1	6:1
A	5.48'	6.19'	6.95'	8.58'
B	2.70'	3.07'	3.46'	4.28'
C	0.78'	1.12'	1.49'	2.30'
D	2.00'	2.00'	2.00'	2.00'
E	2.00'	2.00'	2.00'	2.00'
F	0.46'	0.61'	0.78'	1.18'
G	0.71'	1.07'	1.46'	2.27'
H	2.31'	2.51'	2.71'	3.13'
CONC.	0.15 C.Y.	0.17 C.Y.	0.20 C.Y.	0.25 C.Y.



CROSS DRAIN



CONCRETE SPLASH PADS

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
PAVEMENT UNDERDRAINAGE CROSS DRAINS			
DATE: _____	EFFECTIVE: 07-01-2006	605.10G	3/3